## IN THE CLAIMS

1. (currently amended) A rotating machine comprising:

a vertically-mounted shaft supported in a main housing, said shaft being normally supported by bearings within said housing and said shaft having an upper end extending through an upper end of said main housing;

a <u>movable</u> shaft support for relieving said bearings of stress during periods of non use of said rotating machine, said shaft support providing an upward force on said shaft.

- 2. (Original) The rotating machine of Claim 1, wherein said rotating machine is a pump.
- (Original) The rotating machine of Claim 1, wherein said shaft support comprises a
  pneumatic piston which converts fluid pressure into a force exerted upward against said upper end of
  said shaft.
- 4. (Original) The rotating machine of Claim 1, wherein said upper end of said shaft is threaded and said shaft support comprises a platform having an opening through which said upper end passes and a nut tightened over said upper end and onto said platform, said nut thereby imparting an upward force on said upper end of said shaft.
  - 5. (Currently amended) A pump comprising:
  - a pump housing, said pump housing being oriented vertically;
  - a shaft, said shaft being supported for rotation on bearings within said pump housing:
- a <u>movable</u> shaft support for selectively relieving said bearings of stress during periods of nonuse of said pump, said shaft support providing an upward force on said shaft.
- 6. (Original) The pump of Claim 5, wherein said shaft support provides an upward force on an upper end of said shaft.
- 7. (Original) The pump of Claim 6, wherein said upper end of said shaft extends through an upper end of said pump housing.

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- 8. (Original) The pump of Claim 7, wherein said upper end of said shaft is threaded and said shaft support comprises a platform having a hole through which said upper end of said shaft passes and a nut tightened over said upper end of said shaft and onto said platform, said nut thereby imparting an upward force on said upper end of said shaft.
- 9. (Original) The pump of Claim 5, wherein said shaft support comprises a pneumatic piston which converts fluid pressure into a force exerted upward against an upper end of said shaft.
- 10. (Original) The pump of Claim 9, further comprising a control system, wherein the control system comprises a gas source in fluid communication with the pneumatic piston and an actuatable valve intermediate the gas source and the pneumatic piston.
- 11. (Original) The pump of Claim 9, wherein said piston is coaxially disposed over said upper end of said shaft, said piston having a tubular stem extending therefrom, said tubular stem engaging said upper end of said shaft when a pressure space directly beneath said piston is pressurized relative to a pressure space over said piston, said piston and said stem thereby imparting an upward force against said upper end of said shaft.
- 12. (Original) The pump of Claim 10, further comprising a vent in fluid communication with a space defined by a wall of the support system in contact with the pneumatic piston.

## 13-17. (Canceled)

18. (Currently amended) A method of supporting a pump shaft during periods of non-operation of a pump, said method comprising:

selectively exerting an upward force against said shaft during said periods of non use thereby off-loading bearings normally supportive of said shaft.

19. (Original) The method of Claim 18, wherein said step of exerting an upward force comprises charging a pressure space below a pneumatic piston with pressurized fluid.

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20. (Original) The method of Claim 18, wherein said step of exerting an upward force comprises tightening a nut over a threaded upper end of said shaft and against a platform supported above said pump.